(18)

# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

## BYATARAYANAPURA DIVISION

## KODIGEHALLI SUB DIVISOIN

**Name of the Work** : **Improvements of Drains and Asphalting to main roads and cross roads in ward no 8, Kodigehalli sub Division.**

**Estimate Cost : 99.00 Lakhs**

(17)

# ತಾಂತ್ರಿಕ ವರದಿ

**ವಿಷಯ:–** Improvements of Drains and Asphalting to main roads and cross roads in ward no 8, Kodigehalli sub Division.

ಅಂದಾಜು ಮೊತ್ತ:– 99.00 ಲಕ್ಷಗಳು, ಜಾಬ್ ನಂ: 008–12–000085

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ಕೊಡಿಗೇಹಳ್ಳಿ ವ್ಯಾಪ್ತಿಗೆ ಸೇರಿದ ವಾರ್ಡ್ ನಂ. 8ರ ಕೊಡಿಗೇಹಳ್ಳಿ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬಿಡಬ್ಲ್ಯೂಎಸ್ಎಸ್‌ಬಿ ವತಿಯಿಂದ ಒಳಚರಂಡಿ ವ್ಯವಸ್ಥೆ ಕಾಮಗಾರಿಯು ಪ್ರಗತಿಯಲ್ಲಿರುವ ಪ್ರಯಕ್ತ ಸದರಿ ವಾರ್ಡ್‌ವ್ಯಾಪ್ತಿಯ ಬಾಲಾಜಿ ಬಡಾವಣೆ, ಮಾರುತಿನಗರ, ಮುನೇಶ್ವರ ಬಡಾವಣೆ, ದೇವಿನಗರ ಹಾಗೂ ಎಲ್‌ಕೆಆರ್ ನಗರಗಳಲ್ಲಿನ ರಸ್ತೆಗಳು ತುಂಬಾ ಹದಗೆಟ್ಟಿದ್ದು, ಸಾರ್ವಜನಿಕರ ಹಿತದೃಷ್ಟಿಯಿಂದ, ಸ್ಥಳೀಯ ನಾಗರೀಕರ ಹಾಗೂ ಹಿರಿಯ ನಾಗರಿಕರುಗಳಿಗೆ ಓಡಾಡಲು ತುಂಬಾ ಕಷ್ಟಕರವಾಗಿರುತ್ತದೆ ಹಾಗೂ ಮೋರಿಗಳು ಹಾಳಾಗಿದ್ದು, ನೀರು ಸರಾಗವಾಗಿ ಹರಿಯದೇ ತುಂಬಾ ತೊಂದರೆಯಾಗಿರುತ್ತದೆ. ಈ ಹಿನ್ನಲೆಯಲ್ಲಿ ಸದರಿ ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಲು ಮಾನ್ಯ ಪೂಜ್ಯ ಮಹಾಪೌರರ ಅನುದಾನದಡಿಯಲ್ಲಿ ರೂ. 99.00 ಲಕ್ಷಗಳಿಗೆ ಮಂಜೂರಾಗಿದ್ದು ಜಾಬ್ ನಂಬರ್ 008–12–000085ನ್ನು ಸಹ ನೀಡಲಾಗಿರುತ್ತದೆ.

ಸದರಿ ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿ ಸ್ಥಳವನ್ನು ಮಾನ್ಯ ಪಾಲಿಕೆ ಸದಸ್ಯರೊಂದಿಗೆ ಖುದ್ದಾಗಿ ಪರಿಶೀಲಿಸಿದ್ದು, ಅತಿ ಅವಶ್ಯಕ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು 2012–13ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯ ದರಪಟ್ಟಿಯ ಆಧಾರದ ಮೇಲೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ. ಕ್ರಮವಾಗಿ

1. Earthwork excavation by manual means in Hard soil
2. Removing B.S. slab of Drain and stacking
3. Prefixing stone slabs of drains and pointing in C.M (1:3)
4. Earthwork excavation and foming in embankment
5. Dismantling Cement concrete flooring or plain cement concrete
6. Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6)
7. Providing and laying in position plain cement concrete of mix M7.5
8. Providing and laying in position reinforced cement concrete
9. Providing and removing centering, shuttering, strutting,
10. Providing T.M.T. Steel reinforcement for R.C.C
11. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam
12. Providing and applying primer coat with bitumen emulsion
13. Providing and laying semi dense bituminous concrete
14. Road Marking with Hot Applied Thermoplastic Compound
15. Providing and fixing of road stud 100x 100 mm, die- cast
16. Providing and fixing of retro- reflectorised cautionary, mandatory

ಈ ಮೇಲಿನ ಎಲ್ಲಾ ಅಂಶಗಳನ್ನು ಅವಶ್ಯಕತೆಗೆ ಅನುಗುಣವಾಗಿ ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಿಕೊಂಡು 2012–13ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ದರ ಪಟ್ಟಿ, ಬೆಂಗಳೂರು ವೃತ್ತ ಆಧಾರದ ಮೇಲೆ ರೂ. 99.00 ಲಕ್ಷಗಳಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಲಾಗಿದ್ದು, ಈ ಅಂದಾಜು ಪಟ್ಟಿಯ ಮಂಜೂರಾತಿ, ಆಡಳಿತ ಮಂಜೂರಾತಿ, ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಯನ್ನು ನೀಡಲು ಹಾಗೂ ಕಾಮಗಾರಿಯನ್ನು ಕೆಆರ್‌ಐಡಿಎಲ್ ಸಂಸ್ಥೆಗೆ ವಹಿಸಲು ಕಡತವನ್ನು ಮುಂದಿನ ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ ಸಲ್ಲಿಸಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ.8

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ

## BRUHAT BANGALORE MAHANAGARA PALIKE
## YELAHANKA ZONE

**Name of Work :** **Improvements of Drains and Asphalting to main roads and cross roads in ward no 8, Kodigehalli sub Division.**

**Estimate Cost : Rs. 99.00 Lakhs**

| Sl no | Description of item | Unit | No. | L | B/W | D/T/H | Qty. | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | KSRRB 300-1. Earthwork excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 ( Page no 149, Item no. 19.2 of BCSR 2012-13) | Cum | | | | | | | |
| | Balagi Lay out 4th Cross | | 2.00 | 300.00 | 0.45 | 0.35 | 94.50 | | |
| | 2nd Cross | | 2.00 | 370.00 | 0.45 | 0.40 | 133.20 | | |
| | | | 2.00 | 130.00 | 0.45 | 0.35 | 40.95 | | |
| | Maruthi Nagara Main rood | | 2.00 | 325.00 | 0.45 | 0.40 | 117.00 | | |
| | Cross road | | 6.00 | 65.00 | 0.45 | 0.35 | 61.43 | | |
| | | | 6.00 | 75.00 | 0.45 | 0.35 | 70.88 | | |
| | Muneshwara Block Main rood | | 2.00 | 390.00 | 0.45 | 0.40 | 140.40 | | |
| | Cross road | | 2.00 | 300.00 | 0.45 | 0.40 | 108.00 | | |
| | Cross road | | 2.00 | 140.00 | 0.45 | 0.40 | 50.40 | | |
| | Devinagara | | 2.00 | 110.00 | 0.45 | 0.35 | 34.65 | | |
| | | | 2.00 | 215.00 | 0.45 | 0.35 | 67.73 | | |
| | For Culvert | | 1.00 | 6.50 | 1.50 | 1.50 | 14.63 | | |
| | | | | | | | **933.75** | **81.00** | **75633.75** |
| | Basic Rate | 75.00 | | | | | | | |
| | Area Weightage @ 8% | 6.00 | | | | | | | |
| | **Total** | **81.00** | | | | | | | |
| 2 | Removing B.S. slab of Drain and stacking. ( Page no 28, Item no. 5.32 of BCSR 2012-13) | Sqm | | | | | | | |
| | Balagi Lay out 4th Cross | | 2.00 | 300.00 | | 1.35 | 810.00 | | |
| | 2nd Cross | | 2.00 | 370.00 | | 1.35 | 999.00 | | |
| | | | 2.00 | 130.00 | | 1.35 | 351.00 | | |
| | Maruthi Nagara Main rood | | 2.00 | 325.00 | | 1.35 | 877.50 | | |
| | Cross road | | 6.00 | 65.00 | | 1.35 | 526.50 | | |
| | | | 6.00 | 75.00 | | 1.35 | 607.50 | | |
| | Muneshwara Block Main rood | | 2.00 | 390.00 | | 1.35 | 1053.00 | | |
| | Cross road | | 2.00 | 300.00 | | 1.35 | 810.00 | | |
| | | | 2.00 | 140.00 | | 1.35 | 378.00 | | |
| | Devinagara | | 2.00 | 110.00 | | 1.35 | 297.00 | | |
| | | | 2.00 | 215.00 | | 1.35 | 580.50 | | |
| | | | | | | | **7290.00** | | |
| | Deduct 20% Missing and Broken Slabs | | | | | | **1458.00** | | |
| | | | | | | | **5832.00** | **44.47** | **259374.70** |
| | Basic Rate | 41.18 | | | | | | | |
| | Area Weightage @ 8% | 3.29 | | | | | | | |
| | **Total** | **44.47** | | | | | | | |
| 3 | Refixing stone slabs of drains and pointing in C.M (1:3) ( Page no 28, Item no. 5.33 of BCSR 2012-13) | Sqm | | | | | | | |
| | Drain | Considering 80% of Qty vide Item no 2 | | | | | | | |
| | | | | | | | **5832.00** | **63.00** | **367395.00** |
| | Basic Rate | 58.33 | | | | | | | |
| | Area Weightage @ 8% | 4.67 | | | | | | | |
| | **Total** | **63.00** | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| 4 | KSRRB 300-3. Earthwork excavation and foming in embankment by manual means in **Hard Soil** with initial lead upto 15 m. and lift of 1.5m. (When earth is taken from bank cutting or from borrow pits ) including breaking of clods, spreading to required line and level, forming, and cost of all labour complete as per specifications. ( excluding watering and compaction of earth ) MORTH Chapter 3 ( Page no 149, Item no. 19.4 of BCSR 2012-13) | Cum | | | | | | | |
| | Balagi Lay out 4th Cross | | 1.00 | 300.00 | 5.50 | 0.35 | 577.50 | | |
| | 2nd Cross | | 1.00 | 370.00 | 6.50 | 0.35 | 841.75 | | |
| | | | 1.00 | 130.00 | 5.50 | 0.30 | 214.50 | | |
| | Maruthi Nagara Main rood | | 1.00 | 325.00 | 6.25 | 0.35 | 710.94 | | |
| | Cross road | | 3.00 | 65.00 | 5.25 | 0.30 | 307.13 | | |
| | | | 3.00 | 75.00 | 5.00 | 0.30 | 337.50 | | |
| | Muneshwara Block Main rood | | 1.00 | 390.00 | 5.50 | 0.35 | 750.75 | | |
| | Cross road | | 1.00 | 300.00 | 5.25 | 0.35 | 551.25 | | |
| | Cross road | | 1.00 | 140.00 | 6.00 | 0.30 | 252.00 | | |
| | Devinagara | | 1.00 | 110.00 | 4.50 | 0.35 | 173.25 | | |
| | | | 1.00 | 215.00 | 5.50 | 0.30 | 354.75 | | |
| | | | | | | | **5071.31** | **112.32** | **569609.82** |
| | Basic Rate | 104.00 | | | | | | | |
| | Area Weightage @ 8% | 8.32 | | | | | | | |
| | **Total** | **112.32** | | | | | | | |
| 5 | Dismantling Cement concrete flooring or plain cement concrete work including removing and conveying the debries to distance up to 200 m ( Avg 15 cms Tk) ( Page no ~~28~~ 270, Item no.37.51 of BCSR 2012-13) | Sqm | | | | | | | |
| | | | 60.00 | 5.00 | 1.50 | | 450.00 | | |
| | Basic Rate | 36.00 | | | | | **450.00** | **38.88** | **17496.00** |
| | Area Weightage @ 8% | 2.88 | | | | | | | |
| | **Total** | **38.88** | | | | | | | |
| 6 | Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. ( Page no 28, Item no. 5.31.1 of BCSR 2011-12) | Sqm | | | | | | | |
| | 7.5 cms thick | Considering 20% of Qty vide Item no 2 | | | | | 1458.00 | | |
| | New Drain Near Muneshwara Block | | 2.00 | 190.00 | | 1.65 | 627.00 | | |
| | | | | | | | **2085.00** | **315.36** | **657525.60** |
| | Basic Rate | 292.00 | | | | | | | |
| | Area Weightage @ 8% | 23.36 | | | | | | | |
| | **Total** | **315.36** | | | | | | | |
| 7 | KSRB 4-1.3: Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down sze graded granite metal coarse aggregates @ 0.85 cum and fine aggregtes @ 0.57 cum machine mixed machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation and plinth including cost of all materials labour HOM of machinery curing complete as per | **Cum** | | | | | | | |
| | **For Culvert** | | 1 | 6.50 | 1.35 | 0.20 | 1.76 | | |
| | Basic Rate | 3597.00 | | | | | **1.76** | **3884.76** | **6817.7538** |
| | Area Weightage @ 8% | 287.76 | | | | | | | |
| | **Total** | **3884.76** | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8 | KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878cum and fine aggregtes @ 0.459cum with superplastisiser @ 3 lts confirming to IS 9103-1999 Reaffirmed-2008 machine mixed concrete laid in layers not exceeding 15cms thick vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness ) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM | | | | | | | | |
| | **For Culvert** | | 1x2 | 6.50 | 0.75 | 0.30 | 2.93 | | |
| | | | 1 | 6.50 | 1.00 | 0.30 | 1.95 | | |
| | | | 1 | 6.50 | 1.20 | 0.23 | 1.79 | | |
| | | | | | | | **6.67** | **5239.08** | **34939.42** |
| | Basic Rate | 4851.00 | | | | | | | |
| | Area Weightage @ 8% | 388.08 | | | | | | | |
| | **Total** | **5239.08** | | | | | | | |
| 9 | KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per pecificaitons.(P-17 | **Sqm** | | | | | | | |
| | **For Culvert** | | 1x4 | 6.50 | 1.00 | | 26.00 | | |
| | | | 1 | 6.50 | 1.00 | | 6.50 | | |
| | | | | | | | **32.50** | **244.08** | **7932.60** |
| | Basic Rate | 226.00 | | | | | | | |
| | Area Weightage @ 8% | 18.08 | | | | | | | |
| | **Total** | **244.08** | | | | | | | |
| 10 | KSRB 4.9.2 : Providing T.M.T. Steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking , placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (Page No. 19& Item No. 4.46) | **Qtl** | | | | | | | |
| | 100 kg/cum | | **Qty. Vide Item No 3** | | | | **6.67** | **7323.48** | **48840.29** |
| | Basic Rate | 6781.00 | | | | | | | |
| | Area Weightage @ 8% | 542.48 | | | | | | | |
| | **Total** | **7323.48** | | | | | | | |
| 11 | KSRRB 300-44 Scarifying top bituminous surface or surface dressing or premix carpet including picking up scarified materials, stacking of old serviceable materials within a lead of 100 metres by manual means including cost of all abour charges complete as per specifications. MORTH Chapter 3 ( Page no 155, Item no. 19.50 of BCSR 2012-13) | Sqm | | | | | | | |
| | Balagi Lay out 4th Cross | | 1.00 | 300.00 | 5.50 | | 1650.00 | | |
| | | | | | | | **1650.00** | **17.93** | **29581.20** |
| | Basic Rate | 16.60 | | | | | | | |
| | Area Weightage @ 8% | 1.33 | | | | | | | |
| | **Total** | **17.93** | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 12 | KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.MORTH Specification No. 406<br>( Page no 166, Item no. 20.18 of BCSR 2012-13) | Cum | | | | | | | |
| | Balagi Lay out 4th Cross | | 1.00 | 300.00 | 5.50 | 0.20 | 330.00 | | |
| | | | 1.00 | 300.00 | 0.75 | 0.15 | 33.75 | | |
| | 2nd Cross | | 1.00 | 370.00 | 6.50 | 0.15 | 360.75 | | |
| | | | 1.00 | 370.00 | 0.90 | 0.15 | 49.95 | | |
| | | | 1.00 | 130.00 | 5.50 | 0.15 | 107.25 | | |
| | | | 1.00 | 130.00 | 0.90 | 0.15 | 17.55 | | |
| | Maruthi Nagara Main rood | | 1.00 | 325.00 | 6.25 | 0.15 | 304.69 | | |
| | | | 1.00 | 325.00 | 1.00 | 0.15 | 48.75 | | |
| | Cross road | | 3.00 | 65.00 | 5.25 | 0.15 | 153.56 | | |
| | | | 3.00 | 65.00 | 0.90 | 0.15 | 26.33 | | |
| | | | 3.00 | 75.00 | 5.00 | 0.15 | 168.75 | | |
| | | | 3.00 | 75.00 | 0.90 | 0.15 | 30.38 | | |
| | Muneshwara Block Main rood | | 1.00 | 390.00 | 5.50 | 0.20 | 429.00 | | |
| | | | 1.00 | 390.00 | 0.75 | 0.15 | 43.88 | | |
| | Cross road | | 1.00 | 300.00 | 5.25 | 0.15 | 236.25 | | |
| | | | 1.00 | 300.00 | 0.90 | 0.15 | 40.50 | | |
| | Cross road | | 1.00 | 140.00 | 6.00 | 0.20 | 168.00 | | |
| | | | 1.00 | 140.00 | 0.90 | 0.15 | 18.90 | | |
| | Devinagara | | 1.00 | 110.00 | 4.50 | 0.15 | 74.25 | | |
| | | | 1.00 | 110.00 | 0.75 | 0.15 | 12.38 | | |
| | | | 1.00 | 215.00 | 5.50 | 0.15 | 177.38 | | |
| | | | 1.00 | 180.00 | 0.90 | 0.15 | 24.30 | | |
| | | | | | | | **2856.53** | **1059.48** | **3026431.11** |
| | Basic Rate | 981.00 | | | | | | | |
| | Area Weightage @ 8% | 78.48 | | | | | | | |
| | **Total** | **1059.48** | | | | | | | |
| 13 | KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.<br>MORTH Specification No. 502<br>( Page no 171, Item no. 21.6 of BCSR 2012-13) | Sqm | | | | | | | |
| | Balagi Lay out 4th Cross | | 1.00 | 300.00 | 5.50 | | 1650.00 | | |
| | 2nd Cross | | 1.00 | 370.00 | 6.50 | | 2405.00 | | |
| | | | 1.00 | 130.00 | 5.50 | | 715.00 | | |
| | Maruthi Nagara Main rood | | 1.00 | 325.00 | 6.25 | | 2031.25 | | |
| | Cross road | | 3.00 | 65.00 | 5.25 | | 1023.75 | | |
| | | | 3.00 | 75.00 | 5.00 | | 1125.00 | | |
| | Muneshwara Block Main rood | | 1.00 | 390.00 | 5.50 | | 2145.00 | | |
| | Cross road | | 1.00 | 300.00 | 5.25 | | 1575.00 | | |
| | Cross road | | 1.00 | 140.00 | 6.00 | | 840.00 | | |
| | Devinagara | | 1.00 | 110.00 | 4.50 | | 495.00 | | |
| | | | 1.00 | 215.00 | 5.50 | | 1182.50 | | |
| | | | | | | | **15187.50** | **39.64** | **601971.75** |
| | Basic Rate | 36.70 | | | | | | | |
| | Area Weightage @ 8% | 2.94 | | | | | | | |
| | **Total** | **39.64** | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 14 | KSRRB M500-18. Providing and laying semi dense bituminous concrete 25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects as per specifications **25-30 mm compacted thickness with 5% bitumen 80/100 ( Grading II )** ( Page no 174, Item no. 21.20.1 of BCSR 2012-13) | Cum | | | | | | | |
| | Balagi Lay out 4th Cross | | 1.00 | 300.00 | 5.50 | 0.025 | 41.25 | | |
| | 2nd Cross | | 1.00 | 370.00 | 6.50 | 0.025 | 60.13 | | |
| | | | 1.00 | 130.00 | 5.50 | 0.025 | 17.88 | | |
| | Maruthi Nagara Main rood | | 1.00 | 325.00 | 6.25 | 0.025 | 50.78 | | |
| | Cross road | | 3.00 | 65.00 | 5.25 | 0.025 | 25.59 | | |
| | | | 3.00 | 75.00 | 5.00 | 0.025 | 28.13 | | |
| | Muneshwara Block Main rood | | 1.00 | 390.00 | 5.50 | 0.025 | 53.63 | | |
| | Cross road | | 1.00 | 300.00 | 5.25 | 0.025 | 39.38 | | |
| | Cross road | | 1.00 | 140.00 | 6.00 | 0.025 | 21.00 | | |
| | Devinagara | | 1.00 | 110.00 | 4.50 | 0.025 | 12.38 | | |
| | | | 1.00 | 215.00 | 5.50 | 0.025 | 29.56 | | |
| | | | | | | | **379.69** | **8829.00** | **3352260.94** |
| | Basic Rate | 8175.00 | | | | | | | |
| | Area Weightage @ 8% | 654.00 | | | | | | | |
| | **Total** | **8829.00** | | | | | | | |
| 15 | KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 ( Page no 193, Item no. 24.15 of BCSR 2012-13) | Sqm | | | | | | | |
| | Balagi Lay out 4th Cross | | 2.00 | 300.00 | | 0.10 | 60.00 | | |
| | 2nd Cross | | 2.00 | 370.00 | | 0.10 | 74.00 | | |
| | | | 2.00 | 130.00 | | 0.10 | 26.00 | | |
| | Maruthi Nagara Main rood | | 2.00 | 325.00 | | 0.10 | 65.00 | | |
| | Cross road | | 2.00 | 65.00 | | 0.10 | 13.00 | | |
| | | | 2.00 | 75.00 | | 0.10 | 15.00 | | |
| | Muneshwara Block Main rood | | 2.00 | 390.00 | | 0.10 | 78.00 | | |
| | Cross road | | 2.00 | 300.00 | | 0.10 | 60.00 | | |
| | Cross road | | 2.00 | 140.00 | | 0.10 | 28.00 | | |
| | Devinagara | | 2.00 | 110.00 | | 0.10 | 22.00 | | |
| | | | 2.00 | 215.00 | | 0.10 | 43.00 | | |
| | | | | | | | **484.00** | **429.84** | **208042.56** |
| | Basic Rate | 398.00 | | | | | | | |
| | Area Weightage @ 8% | 31.84 | | | | | | | |
| | **Total** | **429.84** | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, die- cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications ( Page no 197, Item no. 24.41 of BCSR 2012-13) | Nos | | | | | | |
| | | | | | | 180.00 | 429.84 | 77371.20 |
| | Basic Rate | 268.00 | | | | | | |
| | Area Weightage @ 8% | 21.44 | | | | | | |
| | **Total** | **289.44** | | | | | | |
| 17 | Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of high intensity grade sheeting vide clause 800.1.3, fixed over Aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete<br>45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications.<br>(Page no 192, I.No 24.2.6 (vi) of BCSR 2012-13 | Nos | | | | | | |
| | 60 x 60 cm square | | | | | 60.00 | 3205.44 | 192326.40 |
| | Basic Rate | 2968.00 | | | | | | |
| | Area Weightage @ 8% | 237.44 | | | | | | |
| | **Total** | **3205.44** | | | | | | |
| 18 | KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum.<br>KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.<br>MORTH Chapter 1<br>( Page no 197, Item no. 24.41 of BCSR 2012-13) | Cum | | Qty vide item no 1 & 4 | | 6005.00 | 67.18 | 403420.00 |
| | Basic Rate | 62.20 | | | | | | |
| | Area Weightage @ 8% | 4.98 | | | | | | |
| | **Total** | **67.18** | | | | | | |
| 19 | Miscellaneous & Unforeseen Charges | | | | | | | 23441.86 |
| | **TOTAL** | | | | | | | 9900000.00 |

ADMINISTRATIVELY SANCTIONED FOR Rs 99.00 lakhs.
Rupees ninty nine lakhs only
Under
Registered as EE (B) No
Subject to conditions contained in
enclosed memo EE ( ) No
Dt Estimate A/Sanctioned
No
dated 4-1-2013 for 99.00 lakhs

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.

Technical Sanction for Rs. 99.00 Lakhs
Ninty nine lakh rupees only
is accorded under head 00190, works
Sanctioned by Hon. Mayor.
registered as CE No. 77/12-13 Subject
to Conditions contained in enclosed memo
No. 77/12-13 dt. 5/01/13 Dt.

AE/JE TA SE (BTP) CE (BTP)

**(Rupees Nintynine Lakhs Only)**

**CERTIFICATE**

1 Certified that I have personally inspected the area and prepared the estimate.
2 Certified that the work proposed in this estimate is not including in any other scheme.
3 Certified that the estimate is prepared as per 2012-13 SR of PWD.
4 This works is not split up.

**Assistant Engineer**

**Assistant Executive Engineer**
**Bruhat Bangalore Mahanagara Palike**
**Kodigehalli Sub Division**

**Executive Engineer**
**Bruhat Bangalore Mahanagara Palike**
**Byatarayanapura Division**

EXECUTIVE ENGINEER
Byatarayanapura Zone
Sahakar Nagar, Bangalore -92.